

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for transmitting asynchronous data packets including telemetry data of flight testing installations, comprising the steps of:

starting a packeting operation of asynchronous data including telemetry data of flight testing installations in several ~~at least three~~ packeting modules;

receiving, in said several ~~at least three~~ packeting modules, a message directly from a message composition module when the message composition module needs a data packet;

interrupting said packeting operation based on said message;

transmitting a packet of asynchronous data from each of the several ~~at least three~~ packeting modules formed during said packeting operation prior to said interrupting step even if the packeting operation of the asynchronous data is not completed; and

repeating said steps of starting, receiving said message, interrupting, and transmitting thereby transmitting a plurality of data packets,

wherein said message composition module directly receives packets outputted by said several ~~at least three~~ packeting modules, and a transmission time TMS of an outputted message from said message composition module, a packeting time TP, and a transmission time TT satisfy $TT=TP+TMS$, with $TP \gg TMS$.

Claim 2 (Currently Amended): The process of Claim 1, wherein the several ~~at least three~~ packeting modules are not directly connected to each other.

Claim 3 (Currently Amended): The process of Claim 1, wherein said ~~step of~~ receiving said packets is performed in a predefined order.

Claim 4 (Currently Amended): The process of Claim 2, further comprising:
~~the step of~~ composing a message with said packets at said message composition
module.

Claim 5 (Currently Amended): The process of Claim 4, further comprising:
~~the step of~~ formatting said message into a formatted message in a formatting module
which accepts an output of said message composition module.

Claim 6 (Currently Amended): The process of Claim 5, further comprising:
~~the step of~~ transmitting said formatted message to an external device.

Claim 7 (Currently Amended): The process of Claim 1, wherein said interrupting ~~step~~
is immediately triggered when said message is received from said message composition
module.

Claim 8 (Original): The process of Claim 6, wherein a packeting time duration for
said packeting operation is more than half of a total time duration for packeting said
asynchronous data and for transmitting said formatted message.

Claim 9 (Currently Amended): The process of Claim 8, wherein said total time
duration is less than 100 ms, ~~said packeting time duration is approximately equal to said total
time duration, and a time duration for transmitting said message is negligible compared to
said packeting time duration.~~

Claim 10 (Original): The process of Claim 1, wherein a packeting time duration for said packeting operation is equal to a cycle time for a transmission line over which said packets are transmitted.

Claim 11 (Original): The process of Claim 6, wherein a packeting time duration for said packeting operation is more than a time duration for transmitting said message.

Claim 12 (Currently Amended): A process for transmitting a packet of asynchronous data including telemetry data of flight testing installations, comprising ~~the steps of~~:

packeting, in a packeting module, said asynchronous data including telemetry data of flight testing installations into a packet during a packeting time;

requesting, by a message composition module, said packet when said message composition module needs said packet;

stopping said packeting;

composing a message comprising said packet; and

transmitting said message during a message transmitting time even if the packeting is not completed,

wherein ~~said step of requesting is performed so that said packeting time is greater than said message transmitting time~~ a transmission time TMS of an outputted message from said message composition module, a packeting time TP, and a transmission time TT satisfy $TT=TP+TMS$, with $TP \gg TMS$.

Claim 13 (Currently Amended): The process of Claim 12, wherein said ~~step of~~ transmitting said message is performed over a transmission line having a cycle time, and said ~~step of~~ requesting is performed so that said packeting time is equal to said cycle time.

Claim 14 (Currently Amended): The process of Claim 12, wherein said stopping ~~step~~ is triggered by said requesting ~~step~~.

Claim 15 (Original): The process of Claim 12, wherein said packeting time is more than half of a total time for packeting said asynchronous data and for transmitting said message.

Claim 16 (Currently Amended): The process of Claim 15, wherein said total time is less than 100 ms ~~and said message transmitting time is so short compared to said packeting time that said total time is approximately equal to said packeting time.~~

Claim 17 (Previously Presented): The process of Claim 12, further comprising:
recovering, one after another, packets created in a predefined order in a message composition module.

Claim 18 (Previously Presented): The process of Claim 1, wherein the message composition module recovers the data packets created by a plurality of successive packeting modules one after the other in a predefined order.

Claim 19 (Currently Amended): The process of Claim ~~[[9]]~~ 12, wherein said total time duration is less than 100 ms.

Claim 20 (Previously Presented): The process of Claim 1, wherein said message includes a number of data in said packet of asynchronous data equal to or less than 11, and said message includes one wrapping.

Claim 21 (Previously Presented): The process of Claim 1, wherein said packeting operation includes sorting and enhancing data.

Claim 22 (Currently Amended): The process of Claim 1, further comprising:
~~a step of~~ requesting said data packet from said message composition module;[[,]] and
~~said step of~~ transmitting said packet of asynchronous data from the packeting module is performed as soon as the message composition module requests said data packet.

Claim 23 (Currently Amended): The process of Claim 1, wherein said ~~step of~~ interrupting said packeting operation is performed as soon as the packeting module receives the message from the message composition module, and further comprising ~~a step of~~ transmitting an incomplete data packet, being composed at a time of said interrupting, to the message composition module after said ~~step of~~ interrupting said incomplete packet, and further comprising ~~a step of~~ starting a next packeting operation composing a next data packet as soon as the incomplete packet is transmitted.

Claim 24 (Previously Presented): The process of Claim 1, wherein the message composition module needs said data packet after the message composition module has transmitted a previous data packet and the message composition module is ready to start the packeting operation again.

Claim 25 (New): The process of Claim 1, wherein the several packeting modules are at least three packeting modules.